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DB=PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD; PLUR=YES; OP=OR L1 urease near3 xy 2 L2 14 urease near3 x 17 L3 urease near3 y L4 L3 and 12 2 L5 13 not 12 15 L6 L5 not 11 not 15 0 L7 15 not 11 not 14 15 L8 194 felis same (ure or urease or ureb or urea or ure-b or ure-a) L9 190 felis same (ure or urease or ureb or ure-b or ure-a) 65 L10 felis near10 (ure or urease or ureb or ure-b or ure-a) L11 18 and (helicobacter or campylobacter) 96

18 same (helicobacter or campylobacter)

END OF SEARCH HISTORY

L12

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58

38

(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 38 base pairs (B) TYPE: nucleic said

(C) STRANDEDNESS: single (D) TOPOLOGY: linear

57

(i i) MOLECULE TYPE: DNA (genomic)

(i x) FEATURE:

(A) NAME/KEY: misc_feature

(B) LOCATION: 6.11

(D) OTHER INFORMATION: /note= "Restriction site Pstl."

(x i) SEQUENCE DESCRIPTION: SEQ ID NO:18:

ACGTTCTGCA GATGATACCA AAAAGCAAGG GGGCTTAC

AND REAL PROPERTY AND PROPERTY OF THE PROPERTY (2) INFORMATION FOR SEO ID NO:19:

(i) SEQUENCE CHARACTERISTICS

(A) LENGTH: 2619 base pairs

(B) TYPE: nucleic acid

(C) STRANDEDNESS: double

(D) TOPOLOGY: linear

(i i) MOLECULE TYPE: DNA (genomic)

(ix) FEATURE:

(A) NAME/KEY: misc_feature (B) LOCATION: 31..36

(D) OTHER INFORMATION: /standard_name= "Shine-Dalgamo

(i x) FEATURE:

(A) NAME/KEY: misc_feature (B) LOCATION: 756..759

(D) OTHER INFORMATION: /standard_name= "Shine-Datgarno

(x i) SEQUENCE DESCRIPTION: SEQ ID NO:19:

TGATAGCTTG GCTACCAATA GAAATTCAAT AAGGAGTTTA GGATGAAACT AACGCCTAAA 60 GAACTAGACA AGTTAATGCT CCATTATGCG GGCAGATTGG CAGAAGAACG CTTGGCGCGT 120 GGTGTGAAAC TCAATTACAC CGAAGCGGTC GCGCTCATTA GCGGGCGTGT GATGGAAAAG 180 GCGCGTGATG GTAATAAAAG CGTGGCGGAT TTGATGCAAG AAGGCAGGAC TTGGCTTAAA 2 4 0 AAAGAAAATG TGATGGACGG CGTAGCAAGC ATGATTCATG AAGTGGGGAT TGAAGCTAAC 300 TTCCCCGATG GAACCAAGCT TGTAACTATC CACACTCCGG TAGAGGATAA TGGCAAATTA 360 GCCCCCGGCG AGGTCTTCTT AAAAAATGAG GACATTACTA TTAACGCCGG CAAAGAAGCC 4 2 0 ATTAGCTTGA AAGTGAAAAA TAAAGGCGAT CGTCCTGTGC AGGTGGGATC ACATTTCCAC 480 TTCTTCGAAG TGAATAAGCT CTTGGACTTC GATCGCGCAA AAAGCTTTTG CAAACGCCTA 5 4 0 GACATTGCAT CTGGAACAGC GGTGCGCTTT GAACCCGGGG AGGAAAAAA TGTGGAACTC 600 ATTGACATCG GCGGGAATAA GCGCATCTAT GGCTTTAATT CTTTGGTGGA TCGCCAAGCC 660 GATGCCGATG GTAAAAAACT CGGCTTAAAA CGCGCTAAAG AAAAAGGTTT TGGGTCTGTA 720 AACTGCGGTT GTGAAGCGAC TAAAGATAAA CAATAAGGAA AAACCATGAA AAAGATTTCA 780 CGAAAAGAAT ATGTTTCTAT GTATGGTCCC ACTACCGGGG ATCGTGTTAG ACTCGGCGAC ACTGATTTGA TCTTAGAAGT GGAGCATGAT TGCACCACTT ATGGTGAAGA GATCAAATTT 900 GGGGGCGGTA AAACTATCCG TGATGGGATG AGTCAAACCA ATAGCCCTAG CTCTTATGAA 960 TTAGATTTGG TGCTCACTAA CGCCCTCATT GTGGACTATA CGGGCATTTA CAAAGCCGAC 1020 ATTGGGATTA AAGACGGCAA GATTGCAGGC ATTGGCAAGG CAGGCAATAA GGACATGCAA 1080 GATGGCGTAG ATAATAATCT TTGCGTAGGT CCTGCTACAG AGGCTTTGGC AGCTGAGGGC

59 60

-continued TIGATIGTAA CCGCTGGTGG CATCGATACG CATATTCACT TTATCTCTCC CCAACAAATC 1200 CCTACTGCTT TTGCCAGCGG GGTTACAACC ATGATTGGAG GAGGCACAGG ACCTGCGGAT 1260 GGCACGAATG CGACCACCAT CACTCCCGGA CGCGCTAATC TAAAAAGTAT GTTGCGTGCA 1 3 2 0 GCCGAAGAAT ACGCCATGAA TCTAGGCTTT TTGGCTAAGG GGAATGTGTC TTACGAACCC 1380 TCTTTACGCG ATCAGATTGA AGCAGGGGCG ATTGGTTTTA AAATCCACGA AGACTGGGGA AGCACACCTG CAGCTATTCA CCACTGCCTC AATGTCGCCG ATGAATACGA TGTGCAAGTG 1500 GCTATCCACA CCGATACCCT TAACGAGGCG GGCTGTGTAG AAGACACCCT AGAGGCGATT 1560 GCCGGGCGCA CCATCCATAC CTTCCACACT GAAGGGGCTG GGGGTGGACA CGCTCCAGAT 1620 GTTATCAAAA TGGCAGGGGA ATTTAACATT CTACCCGCCT CTACTAACCC GACCATTCCT TTCACCAAAA ACACTGAAGC CGAGCACATG GACATGTTAA TGGTGTGCCA CCACTTGGAT 1740 AAAAGTATCA AGGAAGATGT GCAGTTTGCC GATTCGAGGA TTCGCCCCCA AACTATCGCG 1800 GCTGAAGACC AACTCCATGA CATGGGGATC TTTTCTATCA CCAGCTCCGA CTCTCAGGCT 1860 ATGGGACGCG TAGGCGAGGT GATCACACGC ACTTGGCAGA CAGCAGACAA AAACAAAAAA 1920 GAGTTTGGGC GCTTGAAAGA GGAAAAAGGC GATAACGACA ACTTCCGCAT CAAACGCTAC 1980 ATCTCTAAAT ACACCATCAA CCCCGGGATC GCGCATGGGA TTTCTGACTA TGTGGGCTCT 2040 GTGGAAGTGG GCAAATACGC CGACCTCGTG CTTTGGAGTC CGGCTTTCTT TGGCATTAAG CCCAATATGA TTATTAAGGG CGGATTTATT GCGCTCTCTC AAATGGGCGA TGCCAATGCG 2160 TCTATTCCCA CCCCTCAGCC CGTCTATTAC CGTGAAATGT TTGGACACCA TGGGAAAAAC 2220 AAATTCGACA CCAATATCAC TTTCGTGTCC CAAGCGGCTT ACAAGGCAGG GATCAAAGAA 2280 GAACTAGGGC TAGATCGCGC GGCACCGCCA GTGAAAAACT GTCGCAATAT CACTAAAAAG 2340 GACCTCAAAT TCAACGATGT GACCGCACAT ATTGATGTCA ACCCTGAAAC CTATAAGGTG AAAGTGGATG GCAAAGAGGT AACCTCTAAA GCAGCAGATG AATTGAGCCT AGCGCAACTT 2460 TATAATTTGT TCTAGGAGGC TAAGGAGGGG GATAGAGGGG GTTAATTTAG AGGGGAGTCA 2520 TTGATTTACC TTTGCTAGTT TATAATGGAT TTAAGAGAGG TTTTTTTTCG TGTTTTATAC 2580 CGCGTTGAAA CCCTCAAATC TTTACCAAAA GGATGGTAA 2619

(2) INFORMATION FOR SEQ ID NO:20:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 237 amino acids
 - (B) TYPE: amino acid
 - (C) STRANDEDNESS: single (D) TOPOLOGY: linear
- (i i) MOLECULE TYPE: peptide
- (i x) FEATURE:
 - (A) NAME/KEY: Protein

 - (B) LOCATION: 1..237
 (D) OTHER INFORMATION: /note= "URE A FIGURE 3."
- (x i) SEQUENCE DESCRIPTION: SEQ ID NO:20:

Met Lys Leu Thr Pro Lys Glu Leu Asp Lys Leu Met Leu His Tyr Ala 1 10 15 Giy Arg Leu Ala Giu Giu Arg Leu Ala Arg Giy Vai Lys Leu Asn Tyr 20 25 Thr Glu Ala Val Ala Leu Ile Ser Gly Arg Val Met Glu Lys Ala Arg Asp Gly Ash Lys Ser Val Ala Asp Lea Met Gla Glu Gly Arg Thr Trp 50 60

-continued

(2) INPORMATION FOR SEQ ID NO:22:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 237 amino acide
 - (B) TYPE: amino acid
 - (C) STRANDEDNESS: single (D) TOPOLOGY: linear
- (i i) MOLECULE TYPE: protein
- (\star i) SEQUENCE DESCRIPTION: SEQ ID NO:22:

Met Lys Leu Thr Pro Lys Glu Leu Asp Lys Leu Met His Tyr Ala Gly 1 10 15 Glu Leu Ala Lys Lys Arg Lys Glu Lys Gly IIc Lys Leu Asn Tyr Val 20 25 Glu Als Val Ala Leu Ile Ser Als His lle Met Glu Glu Ala Arg Ala 35 40 Gly Lys Lys Thr Ala Ala Glu Leu Met Glu Glu Gly Arg Thr Leu Leu 50 60 Lys Pro Asp Asp Val Met Asp Gly Val Ala Ser Met Ile His Glu Val 65 70 75 Gly Ile Glu Ala Met Phe Pro Asp Gly Thr Lys Leu Val Thr Val His Thr Pro II e Glu Ala Aan Gly Lya Leu Val Pro Gly Glu Leu Phe Leu 100 110 Lys Asn Giu Asp Ile Thr Ile Asn Glu Gly Lys Lys Als Val Ser Val 115 120 125 Lys Val Lys Asn Vai Giy Asp Arg Pro Val Gin Iic Giy Ser His Pho 130 140 His Phe Phe Glu Val Asn Arg Cys Leu Asp Phe Asp Arg Glu Lys Thr 145 150 Phe Gly Lys Arg Leu Asp IIe Ala Ser Gly Thr Ala Val Arg Phe Glu 165 Pro Gly Giu Cys Ser Vai Giu Leu IIe Asp IIe Giy Giy Asn Arg 180 185 Arg lie Phe Gly Phe Asn Ala Lev Val Asp Arg Gin Ala Asp Asn Glu 195 200 205 Ser Lys I le Ala Leu His Arg Ala Lys Glu Arg Gly Phe His Gly 210 215 Ala Lys Ser Asp Asp Asn Tyr Vai Lys Thr Ile Lys Glu 225 ____ 230 235

- (2) INFORMATION FOR SEQ ID NO:23:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 100 amino acids (B) TYPE: smino scid
 - (C) STRANDEDNESS: single
 - (D) TOPOLOGY: linear
 - (i i) MOLECULE TYPE: protein

 - (x i) SEQUENCE DESCRIPTION: SEQ ID NO:23:
 - Met Glu Leu Thr Pro Arg Glu Lys Asp Lys Leu Leu Leu Phe Thr Ala 1 10 15 Gly Leu Val Ala Glu Arg Arg Leu Ala Lys Gly Leu Lys Leu Asn Tyr 20 25 Pro Giu Arg Val Ala Leu Ile Ser Cys Ala Ile Met Giu Gly Ala Arg 35 40 Giu Giy Lys Thr Val Ala Gin Leu Met Ser Giu Giy Arg Thr Val Leu

-continued

Ala Glu Gln Val Met Glu Gly Val Pro Glu Met Ile Lys Asp Val
70 75

(2) INFORMATION FOR SEQ ID NO:24:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 109 amino acids
 - (B) TYPE: amino acid
 - C) STRANDEDNESS: single
 - (D) TOPOLOGY: linear

(i i) MOLECULE TYPE: protein

(x i) SEQUENCE DESCRIPTION: SEQ ID NO:24:

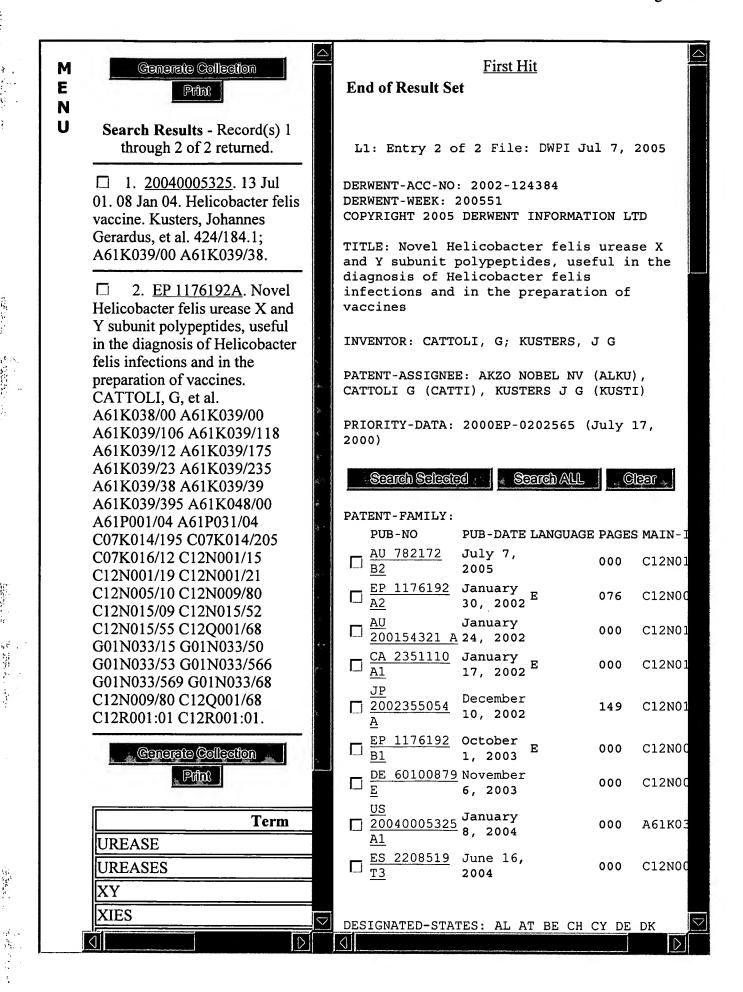
Met lie Pro Gly Glu Ile Arg Val Asn Ala Ala Leu Gly Asp Ile Glu 1 10 15 Leu Asn Ala Gly Arg Glu Thr Lys Thr Ile Gin Val Ala Asn His Gly 20 25 Asp Arg Pro Val Gin Cys Gly Ser His Tyr His Phe Tyr Gin Val Asn 35 40 Glu Ala Leu Arg Phe Ala Arg Lys Glu Thr Leu Gly Phe Arg Leu Asn 50 60 The Pro Ala Gly Met Ala Val Arg Phe Glu Pro Gly Glu Ser Arg Thr Val Asp Glu Leu Val Ala Phe Ala Gly Lys Arg Glu Ile Tyr Gly Phe 85 90 His Gly Lys Val Met Gly Lys Leu Glu Ser Glu Lys Lys 100

(2) INFORMATION FOR SEQ ID NO:25:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 840 amino acids (B) TYPE: amino acid

 - (C) STRANDEDNESS: single (D) TOPOLOGY: linear
- (i i) MOLECULE TYPE: protein
- (\mathbf{x} i) SEQUENCE DESCRIPTION: SEQ ID NO:25:

Met Lys Leu Ser Pro Arg Giu Vai Giu Lys Leu Gly Leu His Asn Ala 1 5 10 Gly Tyr Leu Ala Gln Lys Arg Leu Ala Arg Gly Val Arg Leu Asn Tyr 20 25 Thr Glu Ala Val Ala Leu Ile Ala Ser Gln Ile Met Glu Tyr Ala Arg 35 40 Asp Gly Glu Lys Thr Val Ala Gin Leu Met Cys Leu Gly Gin His Leu 50 60 . Leu Gly Arg Arg Gln Vai Leu Pro Ala Vai Pro His Leu Leu Asn Ala 65 70 80 Val Gin Vai Giu Ala Thr Giu Pro Asp Giy Thr Lys Leu Val Thr Vai 85 90 His Asp Pro Ile Ser Arg Glu Ash Gly Glu Leu Gln Giu Ale Leu Phe 100 110 Gly Ser Leu Leu Pro Val Pro Ser Leu Asp Lys Phe Ala Glu Thr Lys



Entry 6 of 14

File: USPT

Aug 13, 1996

DOCUMENT-IDENTIFIER: US 5545558 A ** See image for Certificate of Correction **

TITLE: Selection of chiral .alpha.-hydroxyketones and derivatives using lipase

Brief Summary Text (44):

Lipase from hog pancreas, lipase type XIII from Pseudomonas sp., lipase type II from porcine pancreas, lipase AK from Pseudomonas sp., lipase PS-30 from Pseudomonas cepacia, lipase CES from Pseudomonas sp., lipase AP-6 from Aspergillus niger, lipase AP-12 from Aspergillus niger, lipase PS-30 from Pseudomonas cepacia, lipase AK from Pseudomonas sp., PLE-A-Amano from porcine liver, LPL-50S from Amano (Pseudomonas sp.), LPL-80 from Amano (Pseudomonas sp.), LPL-200S from Amano (Pseudomonas sp.), .beta.-glucuronidase from bovine liver, enterokinase from bovine intestine, <u>urease Type X</u> from Bacillus pasteurii, and esterase type I from porcine liver.

CLAIMS:

8. A process for the preparation of an ester of a chiral .alpha.-hydroxyketone of the formula ##STR11## wherein: R is selected from the group consisting of phenyl and substituted phenyl;

R.sup.1 is hydrogen and R.sup.2 is alkyl;

R.sup.3 is a carboxylic acyl group of the formula R.sup.4 -- C(O)--;

R.sup.4 is alkyl or substituted alkyl;

which comprises:

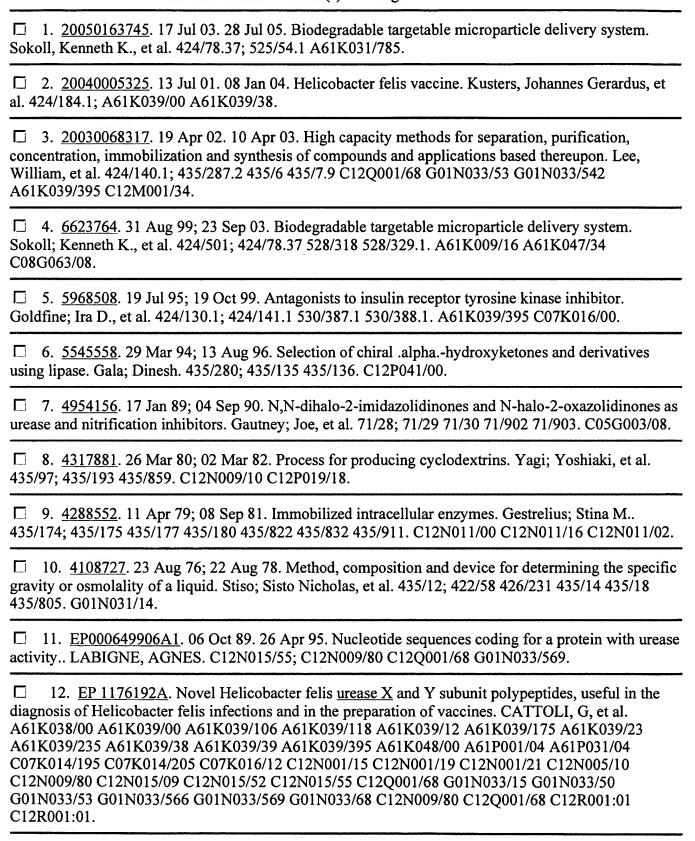
selectively esterifying a racemic .alpha.-hydroxyketone of the formula ##STR12## wherein R, R.sup.1 and R.sup.2 are as defined above, with an esterifying agent in the presence of an enzyme that favors the preparation of one enantiomer, wherein the enzyme is selected from the group consisting of porcine pancreatic lipase, Lipase from Pseudomonas, Lipase from Aspergillus niger, Lipase Type II from porcine pancreas, Esterase Type I from Porcine liver, .beta.-Glucuronidase from Bovine liver, Enterokinase from Bovine intestine, Urease Type X from Bacillus pasteurii, and PLE-A from Porcine liver;

and isolating said chiral ester thereof.

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Search Results - Record(s) 1 through 14 of 14 returned.



- ☐ 13. 3519538. 07 Jul 70. CHEMICALLY COUPLED ENZYMES. MESSING RALPH A; WEETALL HOWARD H. 435/176; 530/811.
- ☐ 14. <u>3328452</u>. 27 Jun 67. Thiosulfoalkanoate compounds. DICKINSON WILLIAM B. 560/307;.

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Term	Documents
UREASE	9296
UREASES	301
X	3670466
XES	6616
(UREASE NEAR3 X).PGPB,USPT,USOC,EPAB,JPAB,DWPI,TDBD.	14
(UREASE NEAR3 X).PGPB,USPT,USOC,EPAB,JPAB,DWPI,TDBD.	14

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DOCUMENT-IDENTIFIER: US 20040241175 A1

TITLE: Antigen targeting

<u>Detail Description Paragraph</u>: [0078] SEQ. ID. NO. 10 <u>Helicobacter felis urease</u> B

DOCUMENT-IDENTIFIER: US 20040005325 A1

TITLE: Helicobacter felis vaccine

Abstract Paragraph:

The present invention relates to novel Helicobacter felis urease subunit polypeptides and to nucleic acid sequences encoding these subunit polypeptides, to DNA fragments and recombinant DNA molecules comprising the nucleic acid sequences encoding these subunit polypeptides, to live recombinant carriers and to host cells comprising nucleic acid sequences encoding these subunit polypeptides. Also, the invention relates to the subunit polypeptides for use in vaccines and the use in the manufacturing thereof, to vaccines comprising said subunit polypeptides and to methods for the preparation of such vaccines. Furthermore, the invention relates to diagnostic methods for the detection of Helicobacter felis specific nucleic acid sequences. Helicobacter felis antigenic material and to antibodies against Helicobacter felis.

Summary of Invention Paragraph:

[0002] Several Helicobacter species are the cause of pathogenesis of the gastric epithelium. Helicobacter pylori, and to a lesser extent H. heilmannii are known to cause gastritis, a major factor in the development of peptic ulcers and gastric lymphoma in humans. Helicobacter felis is most likely the cause of gastric infections in both cats and dogs. In order to survive the highly acidic environment of the stomach, members of the Helicobacter family produce an urease that is capable of hydrolysing the urea present in gastric juice. This hydrolysation sets free an amount of NH.sub.4OH that suffices to neutralise the environment of the bacterium. It is known, that the urease plays a role in the colonisation of the bacterium as well as in its pathogenesis.

Summary of Invention Paragraph:

[0003] Genes encoding <u>urease</u> have been described and sequenced for both <u>Helicobacter</u> pylori (Labigne et al., J. Bacteriol. 173: 1920-1931 (1991)) and Helicobacter felis (Ferrero et al., Molec. Microbiol. 9, 323-333 (1993)). Of the seven genes involved in <u>urease</u> expression and secretion, only two genes encode the two structural subunits urease A en B of the urease enzyme; ureA and ureB. These two polypeptides form a polypeptide complex having <u>urease</u> activity.

Summary of Invention Paragraph:

[0006] It is i.a. an object of the present invention to provide a H. felis urease which is able to induce protection against Helicobacter felis infection in dogs and cats. it was surprisingly found now, that in H. felis a second urease exists, of which the genes encoding the structural subunits share only low homology with the known H. felis ure A and B genes. The novel urease is named urease XY, in order to discriminate it from the known urease AB. The newly found urease has been discovered in H. felis, and is not present in H. pylori.

Summary of Invention Paragraph:

[0007] The overall genetic structure of the genes encoding the two structural urease subunits, UreX and UreY is comparable to that of the known <u>UreA</u> and B in H. <u>felis</u> and H. pylori. The sequence homology is however surprisingly low. It was even more surprisingly found, that the homology between the ureA and B genes and the novel ureX and Y genes in one single H. felis strain is even strikingly lower than the homology between the various <u>ureA</u> and B genes from the various Helicobacter species.

Summary of Invention Paragraph:

[0008] Table 1a, 1b and 1c show the comparison of the ureX and Y gene and the polypeptides they encode form five different Helicobacter felis species, with the ureA and B genes and polypeptides from Helicobacter felis, pylori and heilmannii.

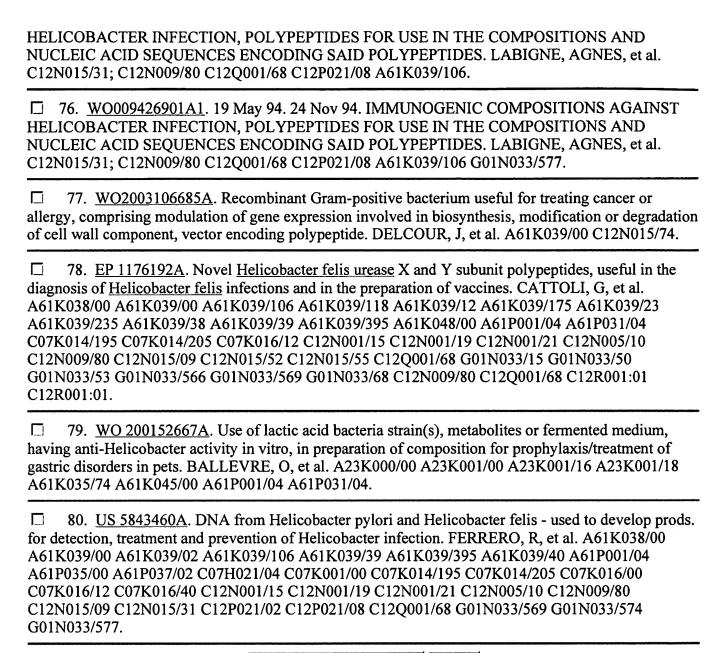
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☐ 51. <u>6248330</u> . 02 May 95; 19 Jun 01. Immunogenic compositions against helicobacter infection, polypeptides for use in the compositions, and nucleic acid sequences encoding said polypeptides. Labigne; Agnes, et al. 424/192.1; 424/184.1 424/234.1 435/6 435/69.1. A61K039/00.
☐ 52. <u>6190667</u> . 30 Jun 98; 20 Feb 01. Methods of inhibiting Helicobacter pylori. De Reuse; Hilde, et al. 424/234.1; 424/780 435/32. A61K039/02.
□ 53. 6133260. 14 Jun 99; 17 Oct 00. Use of 7-(2-oxa-5,8-diazabicyclo[4.3.0]non-8-yl)-quinolone carboxylic acid and naphthyridon carboxylic acid derivatives for the treatment of Helicobacter pylori infections and associated gastroduodenal diseases. Matzke; Michael, et al. 514/230.5; 544/105. C07D265/28 A61K031/5365.
☐ 54. <u>6096521</u> . 29 Jun 98; 01 Aug 00. Adhesin from Helicobacter pylori. Haas; Rainer, et al. 435/70.1; 435/320.1 435/325 435/71.1 514/1 536/23.1 536/23.7. C07H023/02 C07H023/04 C12N015/00 C12P021/04 A01N061/00.
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56. 6077678. 27 Jan 99; 20 Jun 00. Methods for detecting Campylobacter bacteria or antibodies to Campylobacter bacteria with an immunoassay. Pace; John Lee, et al. 435/7.1; 424/282.1 424/802 424/93.1 424/93.4 435/243 435/252.1 435/7.2 435/822 435/960 435/975. A61K045/00 C12N001/00 C12N001/12 G01N033/53.
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58. <u>6033673</u> . 18 Mar 98; 07 Mar 00. Double mutant enterotoxin for use as an adjuvant. Clements; John D 424/236.1; 424/184.1 424/241.1 424/278.1 424/282.1 424/832 424/9.2 514/885. A61K039/02 A61K039/108 A61K045/00 X61K039/00.
☐ 59. <u>6017950</u> . 05 Aug 97; 25 Jan 00. Methods for controlling gram negative bacteria in mammals. Berkowitz; Barry, et al. 514/460; 424/653 514/393 514/394 514/925. A61K031/35 A61K031/415 A61K033/24.
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61. <u>5972336</u> . 06 Jul 93; 26 Oct 99. Urease-based vaccine against helicobacter infection. Michetti; Pierre, et al. 424/184.1; 424/203.1 424/234.1 424/282.1 424/450 424/94.6 435/7.1 435/7.32 435/7.9 514/234.5 514/41 530/323. A61K039/02 A61K009/127 A61K031/535 A61K038/00.
62. <u>5919463</u> . 16 Oct 95; 06 Jul 99. Clostridium difficle toxins as mucosal adjuvants. Thomas, Jr.; William D. et al. 424/239 1: 424/184 1 424/192 1 424/234 1 424/236 1 424/247 1 424/278 1 424/294 6

514/2 530/300 530/350 530/825. A61K039/08 A61K038/46.
☐ 63. <u>5900413</u> . 13 Jan 98; 04 May 99. Treatment of H. pylori infections. Girard; Arthur E., et al. 514/197; 514/300 514/312 514/926 514/927. A61K031/435.
☐ 64. <u>5869066</u> . 30 May 97; 09 Feb 99. Vaccine containing a campylobacter bacterium having an enhanced antigenic property. Pace; John Lee, et al. 424/282.1; 424/802 424/93.1 424/93.4 435/252.1 435/822. A01N063/00 C12N001/20.
☐ 65. <u>5843460</u> . 06 Jun 95; 01 Dec 98. Immunogenic compositions against helicobacter infection, polypeptides for use in the compositions, and nucleic acid sequences encoding said polypeptides. Labigne; Agnes, et al. 424/234.1; 435/6 435/7.32 435/7.9 514/234.5 514/41. A61K039/02.
☐ 66. <u>5837240</u> . 26 Aug 97; 17 Nov 98. Multimeric, recombinant urease vaccine. Lee; Cynthia K., et al. 424/94.6; 424/234.1 435/227 514/925 514/926 514/927. A61K038/46 A61K039/02 A61K039/106.
☐ 67. <u>5728711</u> . 02 Dec 96; 17 Mar 98. Treatment of H. pylori infections. Girard; Arthur E., et al. 514/300; 514/396 514/926 514/927. A61K031/435.
☐ 68. <u>5660842</u> . 05 May 95; 26 Aug 97. Inhibition of helicobacter. Petschow; Bryon W 424/405; 424/440 424/441 424/450 424/451 424/464. A61K009/36.
☐ 69. <u>5610060</u> . 24 Jun 94; 11 Mar 97. Isolated Helicobacter hepaticus. Ward; Jerrold M., et al. 435/252.1; 435/243. C12N001/20.
□ 70. <u>5538729</u> . 22 Aug 94; 23 Jul 96. Oral treatment of helicobacter infection. Czinn; Steven J., et al. 424/234.1; 424/184.1 424/203.1. A61K039/02 A61K039/00 A61K039/38.
☐ 71. <u>JP02004337170A</u> . 02 Jun 04. 02 Dec 04. IMMUNOGENIC COMPOSITIONS AGAINST HELICOBACTER INFECTION, POLYPEPTIDES FOR USE IN THE COMPOSITIONS AND NUCLEIC ACID SEQUENCES ENCODING SAID POLYPEPTIDES. LABIGNE, AGNES, et al. C12N015/09; A61K038/00 A61K039/00 A61K039/39 A61K039/395 A61P001/04 A61P035/00 A61P037/02 C07K014/205 C07K016/12 C07K016/40 C12N001/15 C12N001/19 C12N001/21 C12N005/10 C12N009/80 C12Q001/68 C12P021/08.
72. <u>JP02002355054A</u> . 16 Jul 01. 10 Dec 02. HELICOBACTER FELIS VACCINE. KUSTERS, JOHANNES GERARDUS, et al. C12N015/09; A61K038/00 A61K039/106 A61K039/118 A61K039/12 A61K039/175 A61K039/23 A61K039/235 A61K039/39 A61K039/395 A61P001/04 A61P031/04 C12N001/15 C12N001/19 C12N001/21 C12N005/10 C12N009/80 C12Q001/68 G01N033/15 G01N033/50 G01N033/53 G01N033/566 G01N033/569.
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☐ 75. WO009514093A1. 19 Nov 93. 26 May 95. IMMUNOGENIC COMPOSITIONS AGAINST



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Entry name Q5V6A2 HALMA

Primary accession number **Q5V6A2** Secondary accession numbers None

Release 29, February 2005 Entered in TrEMBL in Sequence was last modified in Release 29, February 2005 Annotations were last modified in Release 29, February 2005

Name and origin of the protein

Protein name **Urease subunit**

Synonym EC 3.5.1.5

Gene name Name: ureX

OrderedLocusNames: pNG7249

Haloarcula marismortui (Halobacterium **[TaxID** From

22381 marismortui)

Plasmid pNG700. Encoded on

Archaea; Euryarchaeota; Halobacteria; Halobacteriales; Taxonomy

Halobacteriaceae: Haloarcula.

References

[1] NUCLEOTIDE SEQUENCE.

STRAIN=ATCC 43049:

DOI=10.1101/gr.2700304; PubMed=15520287 [NCBI, ExPASy, EBI, Israel, Japan] Baliga N.S., Bonneau R., Facciotti M.T., Pan M., Glusman G., Deutsch E.W., Shannon P. Y., Weng R.S., Gan R.R., Hung P., Date S.V., Marcotte E., Hood L., Ng W.V.;

"Genome seguence of Haloarcula marismortui: a halophilic archaeon from the Dead Sea." Genome Res. 14:2221-2234(2004).

Comments

None

Cross-references

AY596296; AAV44950.1; -: [EMBL / GenBank / DDBJ] **EMBL**

Genomic DNA. [CoDingSequence]

CMR Q5V6A2; pNG7249.

GO:0016787;

Molecular function: hydrolase activity (inferred from electronic

annotation).

GO:0009039; Molecular function: urease activity (inferred from electronic

GO annotation).

QuickGo view.

IPR006680; Amidohydro_1.

InterPro IPR011550; Amidohydro_like. IPR012855; D-aminoacyl C.

Graphical view of domain structure.

PF01979; Amidohydro_1; 1.

Pfam PF07908; D-aminoacyl C; 1.

Pfam graphical view of domain structure.

ProDom PD001248; Amidohydro_like; 1.

[Domain structure / List of seq. sharing at least 1 domain]

HOGENOM [Family / Alignment / Tree]

ProtoMap Q5V6A2. PRESAGE Q5V6A2. ModBase Q5V6A2.

SWISS-

2DPAGE Get region on 2D PAGE.

UniRef View cluster of proteins with at least 50% / 90% / 100% identity.

Keywords

Complete proteome; Hydrolase; Plasmid.

Features

None

Sequence information

Length: 571 Molecular weight: 62418 CRC64: 8492B8F61A1F58F2 [This is a checksum or sequence]

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NPSA Sequence analysis tools

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UniProtKB/Swiss-Prot Release 48.4 of 08-Nov-2005 UniProtKB/TrEMBL Release 31.4 of 08-Nov-2005

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Search in UniProtKB/Swiss-Prot: There are matches to 2 out of 197228 entries

URE2_HELFE (**Q08716**)

Urease beta subunit (EC 3.5.1.5) (Urea amidohydrolase). {GENE: Name=ureB} -Helicobacter felis

UREA_HELFE (**Q08715**)

Urease alpha subunit (EC 3.5.1.5) (Urea amidohydrolase alpha subunit). {GENE: Name=ureA} - Helicobacter felis

Search in UniProtKB/TrEMBL: There are matches to 4 out of 2342938 entries

Q8KIZ7 HELFE

Urease UreA (Fragment) {GENE:Name=ureA} - Helicobacter felis

Q8KT24 HELFE

Urease UreB (Fragment) {GENE:Name=ureB} - Helicobacter felis

Q9R5F5 HELFE

Urease small subunit (Fragment) - Helicobacter felis

Q9RGP5 HELFE

Urease (Fragment) {GENE:Name=ureB} - Helicobacter felis

Entrez PubMed Page 1 of 1

Int J Syst Bacteriol. 1991 Jan;41(1):31-8.

Related Articles, Links

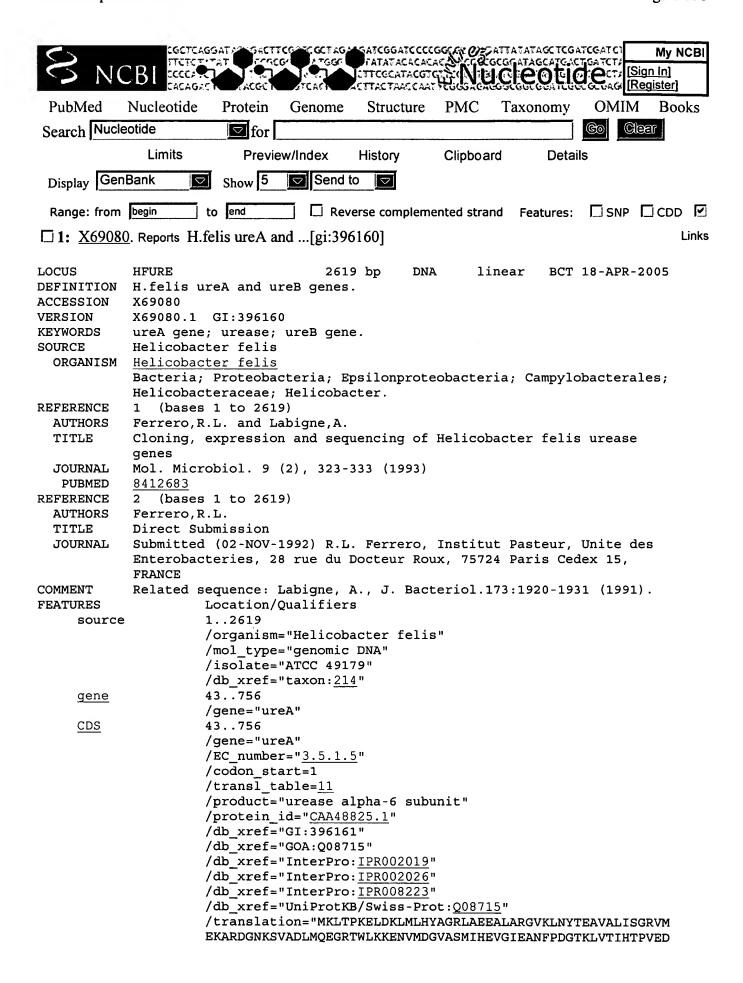
Phylogeny of Helicobacter felis sp. nov., Helicobacter mustelae, and related bacteria.

Paster BJ, Lee A, Fox JG, Dewhirst FE, Tordoff LA, Fraser GJ, O'Rourke JL, Taylor NS, Ferrero R.

Forsyth Dental Center, Boston, Massachusetts 02115.

Strain CS1T (T = type strain) is a gram-negative, microaerophilic, urease-positive, spiral-shaped bacterium that was isolated from the gastric mucosa of a cat. Additional strains which possessed biochemical and ultrastructural characteristics similar to those of strain CS1T were isolated from the gastric mucosa of cats and dogs. The guanine-plus-cytosine content of the DNA of strain CS1T was 42.5 mol%. The 16S rRNA sequences of strain CS1T, strain DS3 (a spiral-shaped isolate from a dog), and Helicobacter mustelae were determined by direct RNA sequencing, using a modified Sanger method. These sequences were compared with the 16S rRNA sequences of Helicobacter pylori, "Flexispira rappini," Wolinella succinogenes, and 11 species of campylobacters. A dendrogram was constructed based upon sequence similarities. Strains CS1T and DS3 were very closely related (level of similarity, 99.3%). Two major phylogenetic groups were formed; one group consisted of strains CS1T and DS3, H. mustelae, H. pylori, "F. rappini," and W. succinogenes, and the other group contained the true campylobacters. The average level of similarity between members of these two groups was 84.9%. Within the first group, strains CS1T and DS3, H. pylori, and H. mustelae formed a cluster of organisms with an interspecies similarity level of 94.5%. The phylogenetic positions of W. succinogenes and "F. rappini" were just outside this cluster. On the basis of the results of this study, we believe that strains CS1T (= ATCC 49179T) and DS3 represent a new species of the genus Helicobacter, for which we propose the name Helicobacter felis.

Not.



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Oct 4 2005 13:52:42

09342093 PMID: 1704791

Phylogeny of Helicobacter felis sp. nov., Helicobacter mustelae, and related bacteria.

Paster B J; Lee A; Fox J G; Dewhirst F E; Tordoff L A; Fraser G J; O'Rourke J L; Taylor N S; Ferrero R

Forsyth Dental Center, Boston, Massachusetts 02115.

International journal of systematic bacteriology (UNITED STATES) 1991, 41 (1) p31-8, ISSN 0020-7713 Journal Code: 0042143 Contract/Grant No.: AI-25590; AI; NIAID; AI-25631; AI; NIAID; CA-26731;

CA; NCI; +

Publishing Model Print

Document type: Journal Article

Languages: ENGLISH

Main Citation Owner: NLM

Record type: MEDLINE; Completed

Subfile: INDEX MEDICUS

(T = type strain) is a gram-negative, microaerophilic, CS1T urease-positive, spiral-shaped bacterium that was isolated from the gastric mucosa of a cat. Additional strains which possessed biochemical and ultrastructural characteristics similar to those of strain CS1T were isolated from the gastric mucosa of cats and dogs. guanine-plus-cytosine content of the DNA of strain CS1T was 42.5 mol%. The 16S rRNA sequences of strain CS1T , strain DS3 (a spiral-shaped isolate from a dog), and Helicobacter mustelae were determined by direct RNA sequencing, using a modified Sanger method. These sequences were compared with the 16S rRNA sequences of Helicobacter pylori, "Flexispira

rappini," Wolinella succinogenes, and 11 species of campylobacters. A dendrogram was constructed based upon sequence similarities. Strains CS1T and DS3 were very closely related (level of similarity, 99.3%). Two major phylogenetic groups were formed; one group consisted of strains CS1T and DS3, H. mustelae, H. pylori, "F. rappini," and W. succinogenes, and the other group contained the true campylobacters. The average level of similarity between members of these two groups was 84.9%. Within the first group, strains CS1T and DS3, H. pylori, and H. mustelae formed a cluster of organisms with an interspecies similarity level of 94.5%. The phylogenetic positions of W. succinogenes and "F. rappini" were just outside this cluster. On the basis of the results of this study, we believe that strains CS1T (= ATCC 49179T) and DS3 represent a new species of the genus Helicobacter, for which we propose the name Helicobacter felis.

Tags: Research Support, U.S. Gov't, P.H.S.

3/6,KWIC/3 (Item 3 from file: 155)
DIALOG(R)File 155:(c) format only 2005 Dialog. All rts. reserv.

12716380 PMID: 10639446

Helicobacter felis infection is associated with lymphoid follicular hyperplasia and mild gastritis but normal gastric secretory function in cats.
Feb 2000

The relationship of Helicobacter felis, a bacterium observed in the stomachs of cats, to gastric disease is unclear. The objective of this study was to determine if H. felis infection alters gastric histopathology, proinflammatory cytokine expression, and secretory function and evokes a humoral immune response in cats. Five specific-pathogen-free (SPF) Helicobacter -free cats were studied before and for 1 year after oral inoculation with H. felis (ATCC 49179). Four SPF H. felis -uninfected cats served as controls. The stomachs of all five H. felis -inoculated cats became colonized, as determined by urease activity, histopathology, PCR, culture, and transmission electron...

... of serial gastric biopsies at 0, 3, 5, 8, and 12 months. Uninoculated cats remained Helicobacter free. Lymphoid follicular hyperplasia, atrophy, and fibrosis were observed primarily in the pylorus of infected...

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12716380 PMID: 10639446

Helicobacter felis infection is associated with lymphoid follicular hyperplasia and mild gastritis but normal gastric secretory function in cats.

Simpson K W; Strauss-Ayali D; Scanziani E; Straubinger R K; McDonough P L ; Straubinger A F; Chang Y F; Domeneghini C; Arebi N; Calam J

College of Veterinary Medicine, Cornell University, Ithaca, New York 14853, USA. KWS5@cornell.edu

Infection and immunity (UNITED STATES) Feb 2000, 68 (2) p779-90, ISSN 0019-9567 Journal Code: 0246127

Publishing Model Print

Document type: Journal Article

Languages: ENGLISH

Main Citation Owner: NLM

Record type: MEDLINE; Completed

Subfile: INDEX MEDICUS

The relationship of Helicobacter felis, a bacterium observed in the stomachs of cats, to gastric disease is unclear. The objective of this to determine if H. felis infection alters gastric study was

histopathology, proinflammatory cytokine expression, and secretory function and evokes a humoral immune response in cats. Five specific-pathogen-free Helicobacter -free cats were studied before and for 1 year after oral inoculation with H. felis (ATCC 49179). Four SPF H. felis -uninfected cats served as controls. The stomachs of all five H. felis -inoculated cats became colonized, as determined by urease activity, histopathology, PCR, culture, and transmission electron microscopy of serial gastric biopsies at 0, 3, 5, 8, and 12 months. Uninoculated cats remained Helicobacter free. Lymphoid follicular hyperplasia, atrophy, and fibrosis were observed primarily in the pylorus of infected cats. Mild mononuclear inflammation was detected in both infected and uninfected cats, but was more extensive in infected cats, with pangastric inflammation, eosinophilic infiltrates, and cardia gastritis observed only in infected cats. No upregulation of antral mucosal interleukin lalpha (IL-lalpha), or tumor necrosis factor alpha was detected by reverse IL-1beta, transcription-PCR in any cat. The gastric secretory axes, assessed by gastrin and somatostatin fasting plasma gastrin, antral mucosal immunoreactivity, and pentagastrin-stimulated gastric acid secretion, were similar in both infected and uninfected cats. Gradual seroconversion (immunoglobulin G) was observed in four of five infected cats, with enzyme-linked immunosorbent assay values reaching 4x to 12x baseline 12 months postinfection. These findings indicate that H. felis infection in follicular hyperplasia, mild gastritis, and induces lymphoid seroconversion, but is associated with normal gastric secretory function.

Tags: Male; Research Support, Non-U.S. Gov't

Descriptors: *Gastric Mucosa--pathology--PA; *Gastritis--etiology--ET; *Helicobacter Infections--pathology--PA; *Lymphoid Tissue--pathology--PA; Animals; Antibodies, Bacterial--blood--BL; Cats; Cytokines--biosynthesis--BI; Gastric Mucosa--secretion--SE; Gastrins--analysis--AN; Hyperplasia; Immunohistochemistry; Polymerase Chain Reaction; Somatostatin--analysis--AN; Urease--metabolism--ME

CAS Registry No.: 0 (Antibodies, Bacterial); 0 (Cytokines); 0

(Gastrins); 51110-01-1 (Somatostatin)

Enzyme No.: EC 3.5.1.5 (Urease)
Record Date Created: 20000210
Record Date Completed: 20000210

3/9/4 (Item 4 from file: 155)

DIALOG(R) File 155: MEDLINE(R)

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10527842 PMID: 8112850

Immunological and molecular characterization of Helicobacter felis urease.

Gootz T D; Perez-Perez G I; Clancy J; Martin B A; Tait-Kamradt A; Blaser M J

Department of Immunology and Infectious Diseases, Central Research Division, Pfizer Inc., Groton, Connecticut 06340.

Infection and immunity (UNITED STATES) Mar 1994, 62 (3) p793-8, ISSN 0019-9567 Journal Code: 0246127

Publishing Model Print

Document type: Journal Article

Languages: ENGLISH

Main Citation Owner: NLM

Record type: MEDLINE; Completed

Subfile: INDEX MEDICUS

Urease activity has recently been shown to be an important virulence determinant for Helicobacter pylori, allowing it to survive the low pH of the stomach during colonization. Experimental murine infection with

Helicobacter felis is now being used as a model for H. pylori infection to study the effects of vaccines, antibiotics, and urease inhibitors on colonization. However, little information comparing the ureases of H. and H. pylori is available. Urease was partially purified from the cell surface of H. felis ATCC 49179 by A-5M agarose chromatography, resulting in an eightfold increase in specific activity over that of crude urease. The apparent Km for urea for the partially purified urease was 0.4 mM, and the enzyme was inhibited in a competitive manner by flurofamide (50% inhibitory concentration = 0.12 microM). Antiserum to whole cells of H. pylori recognized both H. pylori and H. felis urease B subunits. Antiserum raised against H. felis whole cells recognized the large and small autologous urease subunits and the cpn60 heat shock molecule in both H. felis and H. pylori. However, this antiserum showed only a weak reaction with the B subunit of H. pylori urease. Two oligomeric DNA sequences were used as probes to evaluate the relatedness of H. felis and H. pylori urease gene sequences. One 30-mer from the ureA sequence, which had been shown previously to be specific for H. pylori, failed to hybridize to H. felis genomic DNA. A probe to the putative coding sequence for the active site of the H. pylori ureB subunit hybridized at low intensity to a 2.8-kb fragment of BamHI-HindIII-digested H. felis DNA, suggesting that the sequences were homologous but not identical, a result confirmed from the recently published sequences of ureA and ureB from H. felis.

Tags: Research Support, U.S. Gov't, Non-P.H.S.

Descriptors: *Helicobacter--enzymology--EN; *Urease--immunology--IM; Base Sequence; Blotting, Southern; Molecular Sequence Data; Molecular Weight; Urease--genetics--GE; Urease--metabolism--ME

Enzyme No.: EC 3.5.1.5 (Urease)

Gene Symbol: ureA; ureB

Record Date Created: 19940330 Record Date Completed: 19940330

3/9/37 (Item 1 from file: 35)
DIALOG(R)File 35:Dissertation Abs Online
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01802879 ORDER NO: AADAA-10800126
THE BIOLOGY OF PLASMIDS ENDOGENOUS TO HELICOBACTER SP. USED IN MOUSE MODELS
OF HELICOBACTER INFECTION

Author: DE UNGRIA, MARIA CORAZON ABOGADO

Degree: PH.D. Year: 1999

Corporate Source/Institution: UNIVERSITY OF NEW SOUTH WALES (AUSTRALIA) (0423)

Source: VOLUME 60/08-B OF DISSERTATION ABSTRACTS INTERNATIONAL. PAGE 3717.

Descriptors: BIOLOGY, MICROBIOLOGY; BIOLOGY, MOLECULAR; BIOLOGY, GENETICS; HEALTH SCIENCES, PATHOLOGY

Descriptor Codes: 0410; 0307; 0369; 0571

With the impact of <italic> Helicobacter </italic>-associated diseases in the world population, the contribution of extrachromosomal components to the overall biology and evolution of this important bacterial genus needs to be defined. This thesis focused primarily on plasmid pHPS1 of <italic> Helicobacter pylori</italic> Sydney Strain (SS1) and plasmid pHFS1 of <italic> Helicobacter felis </italic> CS1 in order to explore their role in the basic biology of these two <italic> Helicobacter </italic> sp. used in two mouse models of <italic> Helicobacter </italic> infection.

The 5846 bp sequence of plasmid pHPS1 revealed three open reading frames (ORFs) all of which are transcribed, as well as two huge repeats

(R2). Analyses of these sequences led to the identification of two plasmid replication proteins, RepA and RepB, of pHPS1 and the implication of the involvement of ORF2 and R2 in genetic recombination. Comprehensive analysis of the whole genome sequence of <italic>H. pylori</italic> strain 26695 and other <italic>H. pylori</italic> chromosomal and plasmid sequences provided evidence to support the occurrence of plasmid-mediated recombination in <italic>H. pylori</italic>, which is likely to play a crucial role in maintaining the characteristic genome plasticity of this bacterium. Furthermore, amidst the microdiversity observed between different <italic>H. pylori</italic> plasmids, a unifying theme was discerned underlying these sequences which supports the co-evolution of <italic>H. pylori </italic> plasmids and chromosomes from a commensal ancestor to the modern <italic> H. pylori</italic>.

In parallel, the characterisation of plasmids in CS1, including their stability in the mouse model was performed in this present study. Several lines of evidence support the sensitivity of plasmid-host interaction to variations in growth conditions that invariably lead to plasmid instability <italic> in vitro</italic> and <italic>in vivo</italic>. In addition, plasmid-based PCR probes were developed for the molecular detection of the mouse colonising strain of <italic>H. pylori</italic> (SS1) and <italic>H. felis</italic> (CS1) in mouse gastric tissue. Such molecular tools are expected to enhance the utility of two mouse models of infection in characterising the complex processes of <italic>H. pylori</italic> pathogenesis and control <italic>in vivo</italic>.

? t s3/3,kwic/10 13 14 17 19 21 32

3/3,KWIC/10 (Item 5 from file: 654)

DIALOG(R) File 654:US Pat. Full.

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4078048 **IMAGE Available

Derwent Accession: 1995-006797

Utility

C/ Immunogenic compositions against helicobacter infection, polypeptides for use in the compositions, and nucleic acid sequences encoding said polypeptides

Inventor: Labigne, Agnes, Bures S/Yvette, FR

Suerbaum, Sebastin, Bochum, DE Ferrero, Richard L., Paris, FR Thiberge, Jean-Michel, Plaisir, FR

Assignee: Institut Pasteur(03), Paris, FR

Institut National de la Sante et de la Recherche Medicale(03),

Paris, FR

Institut National de la Sante et de la Recherche Medicale FR

Institut Pasteur FR (Code: 42312 42342)

Examiner: Housel, James C. (Art Unit: 182) Assistant Examiner: Portner, Ginny Allen

Law Firm: Finnegan, Henderson, Farabow, Garrett & Dunner, L.L.P.

•	Publication			Aj	pplication	Filing
	Number	Kind	Date		Number	Date
•						
Main Patent	US 5843460	A	19981201	US	95467822	19950606
Continuation	Pending			US	95447177	19950519
CIP	Pending			US	95432697	19950502
Priority				EP	93401309	19930519
_				WO	93EP3259	19931119

Fulltext Word Count: 22530

```
Description of the Invention:
    ...85P) was a clinical isolate. Labigne et al., J. Bacteriol, 173,
  1920-1931 (1991). H. felis (ATCC 49179) was originally isolated from
  cat gastric mucosa. Lee (1988). Helicobacters were grown on a blood
  agar medium, containing an antibiotic mixture, and incubated under
 microaerobic...
 3/3,KWIC/13
                (Item 3 from file: 349)
DIALOG(R) File 349:PCT FULLTEXT
(c) 2005 WIPO/Univentio. All rts. reserv.
00453015
76 kDa, 32 kDa, AND 50 kDa HELICOBACTER POLYPEPTIDES AND CORRESPONDING
    POLYNUCLEOTIDE MOLECULES
POLYPEPTIDES D'HELICOBACTER DE 76 kDa, 32 kDa ET 50 kDa ET MOLECULES DE
    POLYNUCLEOTIDES CORRESPONDANTES
Patent Applicant/Assignee:
  MERIEUX ORAVAX SOCIETE EN NOM COLLECTIF PASTEUR MERIEUX SERUMS ET VACCINS
    SA,
  HUMAN GENOME SCIENCES INC,
  KLEANTHOUS Harold,
  LISSOLO Ling,
  TOMB Jean-Francois,
 MILLER Charles,
  AL-GARAWI Amal,
Inventor(s):
  KLEANTHOUS Harold,
  LISSOLO Ling,
  TOMB Jean-Francois,
  MILLER Charles,
  AL-GARAWI Amal,
Patent and Priority Information (Country, Number, Date):
  Patent:
                       WO 9843479 A1 19981008
                        WO 98US6421 19980331 (PCT/WO US9806421)
  Application:
  Priority Application: US 97831310 19970401; US 97834666 19970401
Designated States:
(Protection type is "patent" unless otherwise stated - for applications
prior to 2004)
  AL AM AT AU AZ BA BB BG BR BY CA CH CN CU CZ DE DK EE ES FI GB GE GH GM
  GW HU ID IL IS JP KE KG KP KR KZ LC LK LR LS LT LU LV MD MG MK MN MW MX
  NO NZ PL PT RO RU SD SE SG SI SK SL TJ TM TR TT UA UG US US UZ VN YU ZW
  GH GM KE LS MW SD SZ UG ZW AM AZ BY KG KZ MD RU TJ TM AT BE CH DE DK ES
  FI FR GB GR IE IT LU MC NL PT SE BF BJ CF CG CI CM GA GN ML MR NE SN TD
Publication Language: English
Fulltext Word Count: 59463
Fulltext Availability:
  Detailed Description
Detailed Description
... pylori strain 85P; Ferrero et
  al., supra); a UreA-MBP fusion protein (UreA from H. felis strain ATCC
   49179 ; Ferrero et al., supra); a UreB-MBP fusion protein (UreB from H.
  felis 1 5 strain ATCC 49179; Ferrero et al., supra); and a 37 kDa
  fragment of UreB
  containing amino acids 220...
```

...Davin et al., "A 37 kD fragment of

UreB is sufficient to confer protection against Helicobacterfelis infection in mice"). Finally, Thomas et al. (supra) showed that oral immunization of mice with... (Item 4 from file: 349) 3/3,KWIC/14 DIALOG(R) File 349: PCT FULLTEXT (c) 2005 WIPO/Univentio. All rts. reserv. 00453014 IDENTIFICATION OF POLYNUCLEOTIDES ENCODING NOVEL HELICOBACTER POLYPEPTIDES IN THE HELICOBACTER GENOME IDENTIFICATION DE POLYNUCLEOTIDES CODANT DE NOUVEAUX POLYPEPTIDES HELICOBACTER DANS LE GENOME HELICOBACTER Patent Applicant/Assignee: MERIEUX ORAVAX SOCIETE EN NOM COLLECTIF PASTEUR MERIEUX SERUMS ET VACCINS HUMAN GENOME SCIENCE INC, KLEANTHOUS Harold, AL-GARAWI Amal, MILLER Charles, TOMB Jean-Francois, OOMEN Raymond Peter, Inventor(s): KLEANTHOUS Harold, AL-GARAWI Amal. MILLER Charles. TOMB Jean-Francois. OOMEN Raymond Peter, Patent and Priority Information (Country, Number, Date): Patent: WO 9843478 A1 19981008 WO 98US6371 19980401 (PCT/WO US9806371) Application: Priority Application: US 97833457 19970401; US 97881227 19970624; US 97902615 19970729 Designated States: (Protection type is "patent" unless otherwise stated - for applications prior to 2004) AL AM AT AU AZ BA BB BG BR BY CA CH CN CU CZ DE DK EE ES FI GB GE GH GM GW HU ID IL IS JP KE KG KP KR KZ LC LK LR LS LT LU LV MD MG MK MN MW MX NO NZ PL PT RO RU SD SE SG SI SK SL TJ TM TR TT UA UG US US US UZ VN YU ZW GH GM KE LS MW SD SZ UG ZW AM AZ BY KG KZ MD RU TJ TM AT BE CH CY DE DK ES FI FR GB GR IE IT LU MC NL PT SE BF BJ CF CG CI CM GA GN ML MR NE SN TD TG Fulltext Word Count: 811311 Fulltext Availability: Detailed Description Detailed Description ... H. pylori strain 85P; Ferrero et al., supra); a UreAMBP fusion protein (UreA from H. felis strain ATCC 49179; Ferrero et al.,

...Davin et al., "A 37 kD fragment of UreB is sufficient to confer protection against Helicobacter felis infection in mice"). Finally, Thomas et al

Ferrero et al., supra); and a 37 kDa fragment of UreB containing amino

supra); a UreB-MBP fusion protein (UreB from H. felis strain ATCC

49179 ;

acids 220...

...Davin et al., "A 37 kD fragment of UreB is sufficient to confer protection against Helicobacterfelis infection in mice"). Finally, Thomas et al. (supra) showed that oral immunization of mice with...

3/3,KWIC/19 (Item 9 from file: 349) DIALOG(R)File 349:PCT FULLTEXT

containing amino acids 220...

```
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00295942
           **Image available**
IMMUNOGENIC COMPOSITIONS AGAINST HELICOBACTER INFECTION, POLYPEPTIDES FOR
   USE IN THE COMPOSITIONS AND NUCLEIC ACID SEQUENCES ENCODING SAID
    POLYPEPTIDES
COMPOSITIONS IMMUNOGENES DIRIGEES CONTRE LES INFECTIONS PAR HELICOBACTER,
    POLYPEPTIDES UTILISABLES DANS CES COMPOSITIONS, ET SEQUENCES D'ACIDES
   NUCLEIQUES CODANT CES POLYPEPTIDES
Patent Applicant/Assignee:
  INSTITUT PASTEUR,
  INSTITUT NATIONAL DE LA SANTE ET DE LA RECHERCHE MEDICALE,
Inventor(s):
 LABIGNE Agnes,
  SUERBAUM Sebastien,
 FERRERO Richard,
Patent and Priority Information (Country, Number, Date):
  Patent:
                        WO 9514093 A1 19950526
 Application:
                        WO 93EP3259 19931119 (PCT/WO EP9303259)
  Priority Application: WO 93EP3259 19931119
Designated States:
(Protection type is "patent" unless otherwise stated - for applications
prior to 2004)
 JP
Publication Language: English
Fulltext Word Count: 20709
Fulltext Availability:
 Detailed Description
Detailed Description
... absent in the vector controls (pILL570 and pACYC177,
  respectively)
 Figure 9
 Nucleotide sequence of the Helicobacter felis ure
  I gene and deduced amino-acid sequence.
  Figure 10 .
  Comparison of the amino...
...the ure
  I proteins deduced from the nucleotide sequence of the
  ure I gene of Helicobacter felis and that of
  Helicobacter pylori.
  Figure 11 .
  Genetic code,
  Figure 12
  Signification of the one-letter and three-letter
  amino-acid abbreviations.
  EXAMPLES
  I - CLONING, EXPRESSION AND SEQUENCING OF H, FELIS
  UREASE GENE
  EXPERIMENTAL PROCEDURES FOR PART I
  Bacterial strains and culture conditions
  H, felis (ATCC 49179 ) was grown on blood agar
  base no. 2 (Oxoid) supplemented with 5 % (v/v) lysed...
```

```
3/3,KWIC/21
                 (Item 11 from file: 349)
DIALOG(R) File 349: PCT FULLTEXT
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00261638
PREPARATION FOR THERAPEUTIC AND ESPECIALLY PROPHYLACTIC TREATMENT OF
    DIGESTIVE TRACT DISORDERS
PREPARATION PERMETTANT D'ASSURER LA THERAPIE ET NOTAMMENT LA PROPHYLAXIE DE
   MALADIES DU TRACTUS DIGESTIF
Patent Applicant/Assignee:
  DENECKE Rainer,
  GEBERT Irmingard,
Inventor(s):
 DENECKE Rainer,
  GEBERT Irmingard,
Patent and Priority Information (Country, Number, Date):
  Patent:
                        WO 9409806 A1 19940511
  Application:
                        WO 93DE1006 19931022 (PCT/WO DE9301006)
  Priority Application: DE 4236469 19921029; DE 4304640 19930216; DE
    4307352 19930309
Designated States:
(Protection type is "patent" unless otherwise stated - for applications
prior to 2004)
  AU BB BG BR BY CA CZ FI HU JP KP KR KZ LK LV MG MN MW NO NZ PL RO RU SD
  SK UA US AT BE CH DE DK ES FR GB GR IE IT LU MC NL PT SE BF BJ CF CG CI
  CM GA GN ML MR NE SN TD TG
Publication Language: German
Fulltext Word Count: 3696
Fulltext Availability:
  Detailed Description
Detailed Description
     Organismen derzeit wie in der
  Publikation "An Uncultured Gastric Spiral Organism Is a
  Newly Identified Helicobacter in Humans", Jay V.
  Solnick, ... The Journal of
  Infections Diseases, 1993, 168, Seite 379 ff, eingeteilt.
  Folgende Bakterien werden aufgefuhrt:
   Helicobacter
                  felis DS3
  Helicobacter
                 felis
  (Gastrospirillum hominis) 2
  (Gastrospirillum hominis) 1
  Helicobacter pylori
  Helicobacter acinonyx
  Ersatzblatt
  - 8
      Helicobacter sp. CL03
  Helicobacter mustelae
Helicobacter fennelliae
      Helicobacter muridarum
  Helicobacter cinaedi
  (Flexispira rappini)
  Wolinella succinogenes
  - Campylobacter fetus ss fetus
  Campylobacter largi
  - Campylobacter coli
  - Campylobacter jejuni...
```

```
3/3,KWIC/32
                (Item 3 from file: 324)
DIALOG(R) File 324:German Patents Fulltext
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0003136786
Preparation combination to the therapy and prophylaxis of illnesses of the
    digestive tract
Praparatkombination zur Therapie und Prophylaxe von Erkrankungen des
   Verdauungstraktes
Patent Applicant/Assignee:
 Denecke Rainer, Dr.med.vet., 20149 Hamburg, DE
Inventor(s):
 Denecke Rainer, Dr.med.vet.,20149 Hamburg, DE
Patent and Priority Information (Country, Number, Date):
                       DE 4432262 A1 19950720
 Patent:
                       DE 4432262 19940910
 Application:
 Priority Application: DE 4400736 19940113; DE 4403106 19940202; DE
    4432262 19940910 (DE 4400736; DE 4403106; DE 4432262)
Publication Language: German
Fulltext Word Count (English): 3651
Fulltext Word Count (German) : 3193
Fulltext Word Count (Both) : 6844
Fulltext Availability:
 Description (English machine translation)
 Description (German)
Description (English machine translation)
    present as in the publication "at Uncultured Gastric spiral 45
 Organism Is A Newly Identified Helicobacter in Humans", Jay V.
 Solnick, Jani O'Rourke, Adrian Lee, Bruce J. Paster, Floyd E...
... The journal OF Infections Diseases, 1993, 168,
 page 379 FF.
 The following bacteria are aufgefhrt: Helicobacter
 canis- Helicobacter felis DS3- Helicobacter
                                                          CS1
 Helicobacter
 pylori Helicobacter acinonyx Helicobacter frame CL03 Helicobacter
 mustelae Helicobacter muridarum Helicobacter cinaedi (Flexispira
 rappini) Wolinella of succinogenes Campylobacter fetus ss fetus
 Campylobacter largi Campylobacter coli Campylobacter...
Description (German)
... derzeit wie in der Publikation "An Uncultured Gastric Spiral 45
 Organism Is a Newly Identified Helicobacter in Humans", Jay V. Solnick,
  Jani O'Rourke, Adrian Lee, Bruce J. Paster, Floyd E...
... The Journal of Infections Diseases, 1993, 168, Seite 379 ff, eingeteilt.
  Folgende Bakterien werden aufgefhrt:
                                         Helicobacter canis- Helicobacter
   felis DS3- Helicobacter felis
                                     CS1
                                               Helicobacter pylori
 Helicobacter acinonyx Helicobacter sp. CL03
                                                   Helicobacter mustelae
  Helicobacter muridarum Helicobacter cinaedi (Flexispira rappini)
 Wolinella succinogenes Campylobacter fetus ss fetus Campylobacter largi
 Campylobacter coli Campylobacter jejuni...
```

16nov05 14:26:21 User228206 Session D2538.8

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SYSTEM:OS - DIALOG OneSearch

File 155:MEDLINE(R) 1951-2005/Nov 15

(c) format only 2005 Dialog

*File 155: Completed records will cease to update on 16 November. Please see HELP NEWS 154 for details.

File 654:US Pat.Full. 1976-2005/Nov 15

(c) Format only 2005 Dialog

File 349:PCT FULLTEXT 1979-2005/UB=20051110,UT=20051103

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File 73:EMBASE 1974-2005/Nov 16

(c) 2005 Elsevier Science B.V.

File 348: EUROPEAN PATENTS 1978-2005/Nov W01

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File 5:Biosis Previews(R) 1969-2005/Nov W1

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File 324:German Patents Fulltext 1967-200545

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*File 324: Search original German text plus English translation. Images now available for 2005. See HELP NEWS 324 for details.

File 390:Beilstein Facts 2005/Q2

(c) 2005 Beilstein GmbH

*File 390: File has been reloaded. Please see HELP NEWS 390.

IMPORTANT - Price based on output. See HELP RATES 390.

File 10:AGRICOLA 70-2005/Nov

(c) format only 2005 Dialog

File 35:Dissertation Abs Online 1861-2005/Oct

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3/3,KWIC/7 (Item 2 from file: 654)

DIALOG(R) File 654:US Pat. Full.

(c) Format only 2005 Dialog. All rts. reserv.

4394675

Derwent Accession: 1995-082032

Utility

C/ Treatment of H. pylori associated gastroduodenal disease

Inventor: Doidge, Christopher Vincent, Box Hill, AU

Lee, Adrian, Lane Cove, AU

Assignee: CSL Limited(03), Parkville Vic, AU

The University of New South Wales (03), Kensington NSW, AU

CSL Ltd AU

New South Wales, University of AU (Code: 40730 48775)

Examiner: Housel, James C. (Art Unit: 161) Assistant Examiner: Portner, Ginny Allen

Law Firm: Foley & Lardner

	Publication Number	Kind	Date	Application Number	Filing Date
Main Patent Continuation	US 6129923 Pending	A	20001010	US 98182062 US 464854	19981029
Priority				AU 9315793	19930727

Fulltext Word Count: 3959

Description of the Invention:

...Australia, were infected with four oral doses of 10[sup]9 -10[sup]10 living Helicobacter felis (ATCC culture 49179) given two days apart ...

... New South Wales, Australia, were infected with 3 oral doses of 10[sup]8 living Helicobacter felis (ATCC culture 49179) given 2 days apart, i.e. days 1, 3 and 5...

...Australia, were infected with 4 oral doses of 10[sup]9 -10[sup]10 living Helicobacter felis (ATCC culture 49179) given 2 days apart. 20 female SPF mice were left uninfected, as negative controls...

3/3,KWIC/9 (Item 4 from file: 654)

DIALOG(R) File 654:US Pat. Full.

(c) Format only 2005 Dialog. All rts. reserv.

4109876

Derwent Accession: 1995-082032

Utility

C/ Therapeutic treatment of H. pylori associated gastroduodenal disease; MUCOSAL ADMINISTRATION OF ANTIGEN AND ADJUVANTS; VACCINES

Inventor: Doidge, Christopher Vincent, Box Hill, AU

Lee, Adrian, Lane Cove, AU

Assignee: CSL Limited(03), Parkville, AU

The Univ. of New South Wales (03), New South Wales, AU

CSL Ltd AU

New South Wales, University of AU (Code: 40730 48775)

Examiner: Housel, James C. (Art Unit: 161) Assistant Examiner: Portner, Ginny Allen

Law Firm: Foley & Lardner

	Publication Number	Kind	Date	Aj	oplication Number	Filing Date
Main Patent	US 5871749	Α	19990216	US	95464854	19950818
PCT	WO 9503824		19950209	WO	94AU416	19940725
		371	:19950818			
		102e	:19950818			
Priority				AU	93157	19930727
				AU	943828	19940214

Fulltext Word Count: 4346

Description of the Invention:

...Australia, were infected with four oral doses of 10[sup]9 -10[sup]10 living Helicobacter felis (ATCC culture 49179) given two days apart ...

... New South Wales, Australia, were infected with 3 oral doses of 10[sup]8 living Helicobacter felis (ATCC culture 49179) given 2 days apart, i.e. days 1, 3 and 5...

...Australia, were infected with 4 oral doses of 10[sup]9 -10[sup]10 living Helicobacter felis (ATCC culture 49179) given 2 days apart. 20 female SPF mice were left uninfected, as negative controls...

3/3,KWIC/10 (Item 5 from file: 654)

DIALOG(R) File 654:US Pat. Full.

(c) Format only 2005 Dialog. All rts. reserv.

4078048 **IMAGE Available

Derwent Accession: 1995-006797

Utility

C/ Immunogenic compositions against helicobacter infection, polypeptides for use in the compositions, and nucleic acid sequences encoding said polypeptides

Inventor: Labigne, Agnes, Bures S/Yvette, FR

Suerbaum, Sebastin, Bochum, DE

Ferrero, Richard L., Paris, FR

Thiberge, Jean-Michel, Plaisir, FR

Assignee: Institut Pasteur(03), Paris, FR

Institut National de la Sante et de la Recherche Medicale(03),

Paris, FR

Institut National de la Sante et de la Recherche Medicale FR

Institut Pasteur FR (Code: 42312 42342)

Examiner: Housel, James C. (Art Unit: 182) Assistant Examiner: Portner, Ginny Allen

Law Firm: Finnegan, Henderson, Farabow, Garrett & Dunner, L.L.P.

	Publication Number	Kind	Date	Aj	pplication Number	Filing Date
Main Patent	US 5843460	Α	19981201	US	95467822	19950606
Continuation	Pending			US	95447177	19950519
CIP	Pending			US	95432697	19950502
Priority				EP	93401309	19930519
_				WO	93EP3259	19931119

Fulltext Word Count: 22530

Description of the Invention:

...85P) was a clinical isolate. Labigne et al., J. Bacteriol, 173, 1920-1931 (1991). H. felis (ATCC 49179) was originally isolated from cat gastric mucosa. Lee (1988). Helicobacters were grown on a blood agar medium, containing an antibiotic mixture, and incubated under microaerobic...

? logoff hold

16nov05 14:29:01 User228206 Session D2538.9

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\$0.03 Estimated cost File155

\$2.10 3 Types

\$4.36 Estimated cost File654

\$0.04 0.009 DialUnits File349

\$0.04 Estimated cost File349

\$0.10 0.009 DialUnits File73

\$0.10 Estimated cost File73

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Bacteria			
ATCC [®] Number:	49179 ™ Order this item	Price: \$16	0.00
Organism:	Helicobacter felis Paster et al. depo	sited as Cat spiral 1	
Designations:	CS1	Isolation:	gastric mucosa of adult Sydney, Australia [1023
Depositors:	A Lee		
Biosafety Level:	1	Shipped:	frozen
Growth Conditions:	ATCC medium 1856: Helicobacter m Alternate medium 260: Trypticase so Growth conditions: microaerophilic Temperature: 37.0C		blood
Permits/Forms:	In addition to the <u>MTA</u> mentioned at for the transfer of this ATCC materia for obtaining the permits. Please <u>clic</u> shipment to your location.	I. Anyone purchasing ATCC ma	terial is ultimately respon
			Related Pro
Cross Reference:	GenBank: M57398: Helicobacter felis GenBank: X69080: H.felis ureA and GenBank: AJ001932: Helicobacter fe	ıreB genes.	two ORF's.
Type Strain:	yes		
References:	6952: Paster BJ, et al. Phylogeny of bacteria. Int. J. Syst. Bacteriol. 41: 3 10239: Lee A, et al. Isolation of a sp 2843-2850, 1988. PubMed: 3169989 32444: Melchers K, et al. Cloning and pylori. J. Biol. Chem. 271: 446-457, 32614: Mendes EN, et al. Helicobacte Syst. Bacteriol. 46: 916-921, 1996. I	iral-38, 1991. PubMed: 1704791 iral-shaped bacterium from the membrane topology of a P tyl 1996. PubMed: 8550601 er trogontum sp. nov., isolated	cat stomach. Infect. Imm

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helicobacter felis	Word Search	Clear Search

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$0.70 1 Types
     $0.98 Estimated cost File654
                    1.319 DialUnits File349
           $6.26
              $8.00 5 Type(s) in Format 3
            $8.00 5 Types
    $14.26 Estimated cost File349
           $0.03
                    0.003 DialUnits File73
     $0.03 Estimated cost File73
            $0.02
                   0.003 DialUnits File348
     $0.02 Estimated cost File348
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           $0.02
     $0.02 Estimated cost File5
           $0.18
                   0.036 DialUnits File324
              $1.70 1 Type(s) in Format 3
            $1.70 1 Types
     $1.88 Estimated cost File324
           $0.00
                    0.003 DialUnits File390
     $0.00 Estimated cost File390
                   0.003 DialUnits File10
           $0.01
     $0.01 Estimated cost File10
                   0.003 DialUnits File35
           $0.01
              $2.30 1 Type(s) in Format 9
            $2.30 1 Types
     $2.31 Estimated cost File35
           OneSearch, 10 files, 1.425 DialUnits FileOS
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           TELNET
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    $20.23 Estimated total session cost 1.425 DialUnits
Logoff: level 05.08.03 D 14:26:22
You are now logged offTrying 31060000009999...Open
DIALOG INFORMATION SERVICES
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****** HHHHHHHH SSSSSSSS? ### Status: Signing onto Dialog *******
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### Status: Login successfulWelcome to DIALOG
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SYSTEM:OS - DIALOG OneSearch
  File 155:MEDLINE(R) 1951-2005/Nov 15
         (c) format only 2005 Dialog
*File 155: Completed records will cease to update on 16 November. Please
see HELP NEWS 154 for details.
  File 654:US Pat.Full. 1976-2005/Nov 15
         (c) Format only 2005 Dialog
  File 349:PCT FULLTEXT 1979-2005/UB=20051110,UT=20051103
         (c) 2005 WIPO/Univentio
  File 73:EMBASE 1974-2005/Nov 16
         (c) 2005 Elsevier Science B.V.
  File 348: EUROPEAN PATENTS 1978-2005/Nov W01
         (c) 2005 European Patent Office
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File 5:Biosis Previews(R) 1969-2005/Nov W1

(c) 2005 BIOSIS

File 324:German Patents Fulltext 1967-200545

(c) 2005 Univentio

*File 324: Search original German text plus English translation. Images now available for 2005. See HELP NEWS 324 for details.

File 390:Beilstein Facts 2005/Q2

(c) 2005 Beilstein GmbH

*File 390: File has been reloaded. Please see HELP NEWS 390. IMPORTANT - Price based on output. See HELP RATES 390.

File 10:AGRICOLA 70-2005/Nov

(c) format only 2005 Dialog

File 35:Dissertation Abs Online 1861-2005/Oct

(c) 2005 ProQuest Info&Learning

078048 **IMAGE Available

Derwent Accession: 1995-006797

Utility

C/ Immunogenic compositions against helicobacter infection, polypeptides for use in the compositions, and nucleic acid sequences encoding said polypeptides

Inventor: Labigne, Agnes, Bures S/Yvette, FR

Suerbaum, Sebastin, Bochum, DE Ferrero, Richard L., Paris, FR

Thiberge, Jean-Michel, Plaisir, FR

Assignee: Institut Pasteur(03), Paris, FR

Institut National de la Sante et de la Recherche Medicale(03),

Paris, FR

Institut National de la Sante et de la Recherche Medicale FR

Institut Pasteur FR (Code: 42312 42342)

Examiner: Housel, James C. (Art Unit: 182) Assistant Examiner: Portner, Ginny Allen

Law Firm: Finnegan, Henderson, Farabow, Garrett & Dunner, L.L.P.

	Publication Number	Kind	Date	Application Number	Filing Date
Main Patent Continuation CIP Priority	US 5843460 Pending Pending	A	19981201	US 95467822 US 95447177 US 95432697 EP 93401309 WO 93EP3259	19950606 19950519 19950502 19930519 19931119

Fulltext Word Count: 22530

Description of the Invention:

...85P) was a clinical isolate. Labigne et al., J. Bacteriol, 173, 1920-1931 (1991). H. felis (ATCC 49179) was originally isolated from cat gastric mucosa. Lee (1988). Helicobacters were grown on a blood agar medium, containing an antibiotic mixture, and incubated under microaerobic...

```
76 kDa, 32 kDa, AND 50 kDa HELICOBACTER POLYPEPTIDES AND CORRESPONDING
    POLYNUCLEOTIDE MOLECULES
POLYPEPTIDES D'HELICOBACTER DE 76 kDa, 32 kDa ET 50 kDa ET MOLECULES DE
    POLYNUCLEOTIDES CORRESPONDANTES
Patent Applicant/Assignee:
  MERIEUX ORAVAX SOCIETE EN NOM COLLECTIF PASTEUR MERIEUX SERUMS ET VACCINS
 HUMAN GENOME SCIENCES INC,
  KLEANTHOUS Harold,
 LISSOLO Ling,
 TOMB Jean-Francois,
 MILLER Charles,
 AL-GARAWI Amal,
Inventor(s):
 KLEANTHOUS Harold,
 LISSOLO Ling,
 TOMB Jean-Francois,
 MILLER Charles,
 AL-GARAWI Amal,
Patent and Priority Information (Country, Number, Date):
                        WO 9843479 A1 19981008
  Patent:
 Application:
                        WO 98US6421 19980331 (PCT/WO US9806421)
  Priority Application: US 97831310 19970401; US 97834666 19970401
Designated States:
(Protection type is "patent" unless otherwise stated - for applications
prior to 2004)
  AL AM AT AU AZ BA BB BG BR BY CA CH CN CU CZ DE DK EE ES FI GB GE GH GM
 GW HU ID IL IS JP KE KG KP KR KZ LC LK LR LS LT LU LV MD MG MK MN MW MX
 NO NZ PL PT RO RU SD SE SG SI SK SL TJ TM TR TT UA UG US US UZ VN YU ZW
 GH GM KE LS MW SD SZ UG ZW AM AZ BY KG KZ MD RU TJ TM AT BE CH DE DK ES
  FI FR GB GR IE IT LU MC NL PT SE BF BJ CF CG CI CM GA GN ML MR NE SN TD
  TG
Publication Language: English
Fulltext Word Count: 59463
Fulltext Availability:
 Detailed Description
Detailed Description
... pylori strain 85P; Ferrero et
  al., supra); a UreA-MBP fusion protein (UreA from H. felis strain ATCC
  49179 ; Ferrero et al., supra); a UreB-MBP fusion protein (UreB from H.
  felis 1 5 strain ATCC 49179; Ferrero et al., supra); and a 37 kDa
  fragment of UreB
  containing amino acids 220...
...Davin et al., "A 37 kD fragment of
 UreB is sufficient to confer protection against Helicobacterfelis
  infection in mice"). Finally, Thomas et al. (supra) showed that oral
```

00453015

immunization of mice with...

```
3/3,KWIC/14
                (Item 4 from file: 349)
DIALOG(R) File 349:PCT FULLTEXT
(c) 2005 WIPO/Univentio. All rts. reserv.
00453014
IDENTIFICATION OF POLYNUCLEOTIDES ENCODING NOVEL HELICOBACTER POLYPEPTIDES
    IN THE HELICOBACTER GENOME
                                        CODANT
                                                 DE NOUVEAUX POLYPEPTIDES
IDENTIFICATION
               DE
                     POLYNUCLEOTIDES
    HELICOBACTER DANS LE GENOME HELICOBACTER
Patent Applicant/Assignee:
  MERIEUX ORAVAX SOCIETE EN NOM COLLECTIF PASTEUR MERIEUX SERUMS ET VACCINS
  HUMAN GENOME SCIENCE INC.
  KLEANTHOUS Harold,
  AL-GARAWI Amal,
 MILLER Charles,
  TOMB Jean-Francois,
  OOMEN Raymond Peter,
Inventor(s):
  KLEANTHOUS Harold,
  AL-GARAWI Amal,
 MILLER Charles,
  TOMB Jean-Francois,
  OOMEN Raymond Peter,
Patent and Priority Information (Country, Number, Date):
  Patent:
                        WO 9843478 A1 19981008
                        WO 98US6371 19980401 (PCT/WO US9806371)
  Application:
  Priority Application: US 97833457 19970401; US 97881227 19970624; US
    97902615 19970729
Designated States:
(Protection type is "patent" unless otherwise stated - for applications
prior to 2004)
  AL AM AT AU AZ BA BB BG BR BY CA CH CN CU CZ DE DK EE ES FI GB GE GH GM
  GW HU ID IL IS JP KE KG KP KR KZ LC LK LR LS LT LU LV MD MG MK MN MW MX
  NO NZ PL PT RO RU SD SE SG SI SK SL TJ TM TR TT UA UG US US US UZ VN YU
  ZW GH GM KE LS MW SD SZ UG ZW AM AZ BY KG KZ MD RU TJ TM AT BE CH CY DE
  DK ES FI FR GB GR IE IT LU MC NL PT SE BF BJ CF CG CI CM GA GN ML MR NE
  SN TD TG
Fulltext Word Count: 811311
Fulltext Availability:
 Detailed Description
Detailed Description
... H. pylori strain 85P; Ferrero et al., supra); a UreAMBP fusion protein
  (UreA from H. felis strain ATCC 49179; Ferrero et al.,
  supra); a UreB-MBP fusion protein (UreB from H. felis strain ATCC
  49179 ;
  Ferrero et al., supra); and a 37 kDa fragment of UreB containing amino
  acids 220...
...Davin et al., "A 37 kD fragment of UreB is sufficient to confer
  protection against Helicobacter felis infection in mice"). Finally,
  Thomas et al
```

(supra) showed that oral immunization of mice with...

00453014 IDENTIFICATION OF POLYNUCLEOTIDES ENCODING NOVEL HELICOBACTER POLYPEPTIDES IN THE HELICOBACTER GENOME IDENTIFICATION DE POLYNUCLEOTIDES CODANT DE NOUVEAUX POLYPEPTIDES HELICOBACTER DANS LE GENOME HELICOBACTER Patent Applicant/Assignee: MERIEUX ORAVAX SOCIETE EN NOM COLLECTIF PASTEUR MERIEUX SERUMS ET VACCINS HUMAN GENOME SCIENCE INC, KLEANTHOUS Harold, AL-GARAWI Amal, MILLER Charles. TOMB Jean-Francois, OOMEN Raymond Peter, Inventor(s): KLEANTHOUS Harold, AL-GARAWI Amal, MILLER Charles, TOMB Jean-Francois, OOMEN Raymond Peter, Patent and Priority Information (Country, Number, Date): Patent: WO 9843478 A1 19981008 Application: WO 98US6371 19980401 (PCT/WO US9806371) Priority Application: US 97833457 19970401; US 97881227 19970624; US 97902615 19970729 Designated States: (Protection type is "patent" unless otherwise stated - for applications prior to 2004) AL AM AT AU AZ BA BB BG BR BY CA CH CN CU CZ DE DK EE ES FI GB GE GH GM GW HU ID IL IS JP KE KG KP KR KZ LC LK LR LS LT LU LV MD MG MK MN MW MX NO NZ PL PT RO RU SD SE SG SI SK SL TJ TM TR TT UA UG US US US UZ VN YU

Fulltext Word Count: 811311

Fulltext Availability: Detailed Description

Detailed Description

SN TD TG

... H. pylori strain 85P; Ferrero et al., supra); a UreAMBP fusion protein (UreA from H. felis strain ATCC 49179; Ferrero et al., supra); a UreB-MBP fusion protein (UreB from H. felis strain ATCC 49179;

ZW GH GM KE LS MW SD SZ UG ZW AM AZ BY KG KZ MD RU TJ TM AT BE CH CY DE DK ES FI FR GB GR IE IT LU MC NL PT SE BF BJ CF CG CI CM GA GN ML MR NE

Ferrero et al., supra); and a 37 kDa fragment of UreB containing amino acids 220...

...Davin et al., "A 37 kD fragment of UreB is sufficient to confer protection against Helicobacter felis infection in mice"). Finally, Thomas et al

(supra) showed that oral immunization of mice with...

```
00295942
            **Image available**
IMMUNOGENIC COMPOSITIONS AGAINST HELICOBACTER INFECTION, POLYPEPTIDES FOR
    USE IN THE COMPOSITIONS AND NUCLEIC ACID SEQUENCES ENCODING SAID
    POLYPEPTIDES
COMPOSITIONS IMMUNOGENES DIRIGEES CONTRE LES INFECTIONS PAR HELICOBACTER,
    POLYPEPTIDES UTILISABLES DANS CES COMPOSITIONS, ET SEQUENCES D'ACIDES
   NUCLEIQUES CODANT CES POLYPEPTIDES
Patent Applicant/Assignee:
  INSTITUT PASTEUR,
  INSTITUT NATIONAL DE LA SANTE ET DE LA RECHERCHE MEDICALE,
Inventor(s):
  LABIGNE Agnes,
  SUERBAUM Sebastien,
  FERRERO Richard,
Patent and Priority Information (Country, Number, Date):
                        WO 9514093 A1 19950526
  Patent:
 Application:
                        WO 93EP3259 19931119 (PCT/WO EP9303259)
 Priority Application: WO 93EP3259 19931119
Designated States:
(Protection type is "patent" unless otherwise stated - for applications
prior to 2004)
 JP
Publication Language: English
Fulltext Word Count: 20709
Fulltext Availability:
 Detailed Description
Detailed Description
... absent in the vector controls (pILL570 and pACYC177,
  respectively)
  Figure 9
 Nucleotide sequence of the Helicobacter felis ure
  I gene and deduced amino-acid sequence.
  Figure 10 .
  Comparison of the amino...
  I proteins deduced from the nucleotide sequence of the
  ure I gene of Helicobacter felis and that of
  Helicobacter pylori.
  Figure 11 .
  Genetic code,
  Figure 12
  Signification of the one-letter and three-letter
  amino-acid abbreviations.
  EXAMPLES
  I - CLONING, EXPRESSION AND SEQUENCING OF H, FELIS
  UREASE GENE
  EXPERIMENTAL PROCEDURES FOR PART I
  Bacterial strains and culture conditions
  H, felis (ATCC 49179 ) was grown on blood agar
  base no. 2 (Oxoid) supplemented with 5 % (v/v) lysed...
```

394675

Derwent Accession: 1995-082032

Utility

C/ Treatment of H. pylori associated gastroduodenal disease

Inventor: Doidge, Christopher Vincent, Box Hill, AU

Lee, Adrian, Lane Cove, AU

Assignee: CSL Limited(03), Parkville Vic, AU

The University of New South Wales (03), Kensington NSW, AU

CSL Ltd AU

New South Wales, University of AU (Code: 40730 48775)

Examiner: Housel, James C. (Art Unit: 161)
Assistant Examiner: Portner, Ginny Allen

Law Firm: Foley & Lardner

	Publication Number	Kind	Date	Application Number	Filing Date
Main Patent Continuation	US 6129923 Pending	A	20001010	US 98182062 US 464854	19981029
Priority	_			AU 9315793 AU 94382894	19930727 19940214

Fulltext Word Count: 3959

Description of the Invention:

...Australia, were infected with four oral doses of 10[sup]9 -10[sup]10 living Helicobacter felis (ATCC culture 49179) given two days apart

... New South Wales, Australia, were infected with 3 oral doses of 10[sup]8 living Helicobacter felis (ATCC culture 49179) given 2 days apart, i.e. days 1, 3 and 5...

...Australia, were infected with 4 oral doses of 10[sup]9 -10[sup]10 living Helicobacter felis (ATCC culture 49179) given 2 days apart. 20 female SPF mice were left uninfected, as negative controls...

3/3,KWIC/9 (Item 4 from file: 654)

DIALOG(R)File 654:US Pat.Full.

(c) Format only 2005 Dialog. All rts. reserv.

4109876

Derwent Accession: 1995-082032

Utility

C/ Therapeutic treatment of H. pylori associated gastroduodenal disease; MUCOSAL ADMINISTRATION OF ANTIGEN AND ADJUVANTS; VACCINES

Inventor: Doidge, Christopher Vincent, Box Hill, AU

Lee, Adrian, Lane Cove, AU

Assignee: CSL Limited(03), Parkville, AU

The Univ. of New South Wales (03), New South Wales, AU

CSL Ltd AU

New South Wales, University of AU (Code: 40730 48775)

Examiner: Housel, James C. (Art Unit: 161) Assistant Examiner: Portner, Ginny Allen

Law Firm: Foley & Lardner

Publication Application Filing
Number Kind Date Number Date

Main Patent	US 5871749	Α	19990216	US	95464854	19950818
PCT	WO 9503824		19950209	WO	94AU416	19940725
		371	:19950818			
		102e	:19950818			
Priority				ΑU	93157	19930727
_				ΑU	943828	19940214
				AU	943828	19940214

Fulltext Word Count: 4346

Description of the Invention:

...Australia, were infected with four oral doses of 10[sup]9 -10[sup]10 living Helicobacter felis (ATCC culture 49179) given two days apart ...

... New South Wales, Australia, were infected with 3 oral doses of 10[sup]8 living Helicobacter felis (ATCC culture 49179) given 2 days apart, i.e. days 1, 3 and 5...

...Australia, were infected with 4 oral doses of 10[sup]9 -10[sup]10 living Helicobacter felis (ATCC culture 49179) given 2 days apart. 20 female SPF mice were left uninfected, as negative controls...

3/3, KWIC/10 (Item 5 from file: 654)

DIALOG(R) File 654:US Pat.Full.

(c) Format only 2005 Dialog. All rts. reserv.

4078048 **IMAGE Available

Derwent Accession: 1995-006797

Utility

C/ Immunogenic compositions against helicobacter infection, polypeptides for use in the compositions, and nucleic acid sequences encoding said polypeptides

Inventor: Labigne, Agnes, Bures S/Yvette, FR

Suerbaum, Sebastin, Bochum, DE Ferrero, Richard L., Paris, FR Thiberge, Jean-Michel, Plaisir, FR

Assignee: Institut Pasteur(03), Paris, FR

Institut National de la Sante et de la Recherche Medicale (03),

Paris, FR

Institut National de la Sante et de la Recherche Medicale FR

Institut Pasteur FR (Code: 42312 42342)

Examiner: Housel, James C. (Art Unit: 182) Assistant Examiner: Portner, Ginny Allen

Law Firm: Finnegan, Henderson, Farabow, Garrett & Dunner, L.L.P.

	Publication Number	Kind	Date	Application Number	Filing Date
Main Patent Continuation CIP Priority	US 5843460 Pending Pending	A	19981201	US 95467822 US 95447177 US 95432697 EP 93401309 WO 93EP3259	19950606 19950519 19950502 19930519 19931119

Fulltext Word Count: 22530

Description of the Invention:

...85P) was a clinical isolate. Labigne et al., J. Bacteriol, 173, 1920-1931 (1991). H. felis (ATCC 49179) was originally isolated from cat gastric mucosa. Lee (1988). Helicobacters were grown on a blood agar medium, containing an antibiotic mixture, and incubated under microaerobic...

? logoff hold

16nov05 14:29:01 User228206 Session D2538.9 0.009 DialUnits File155 \$0.03 \$0.03 Estimated cost File155 0.383 DialUnits File654 \$2.26 \$2.10 3 Type(s) in Format 3 \$2.10 3 Types \$4.36 Estimated cost File654 0.009 DialUnits File349 \$0.04 \$0.04 Estimated cost File349 \$0.10 0.009 DialUnits File73 \$0.10 Estimated cost File73 \$0.05 0.009 DialUnits File348 \$0.05 Estimated cost File348 0.009 DialUnits File5 \$0.06 \$0.06 Estimated cost File5 \$0.05 0.009 DialUnits File324 \$0.05 Estimated cost File324 0.009 DialUnits File390 \$0.00 \$0.00 Estimated cost File390 \$0.03 0.009 DialUnits File10 \$0.03 Estimated cost File10 0.009 DialUnits File35 \$0.04 \$0.04 Estimated cost File35 OneSearch, 10 files, 0.467 DialUnits FileOS \$0.26 TELNET \$5.02 Estimated cost this search \$5.02 Estimated total session cost 0.467 DialUnits

Logoff: level 05.08.03 D 14:29:02

You are now logged off

```
0003136786
Preparation combination to the therapy and prophylaxis of illnesses of the
    digestive tract
Praparatkombination zur Therapie und Prophylaxe von Erkrankungen des
    Verdauungstraktes
Patent Applicant/Assignee:
  Denecke Rainer, Dr.med.vet., 20149 Hamburg, DE
Inventor(s):
  Denecke Rainer, Dr.med.vet., 20149 Hamburg, DE
Patent and Priority Information (Country, Number, Date):
                       DE 4432262 A1 19950720
  Application:
                       DE 4432262 19940910
  Priority Application: DE 4400736 19940113; DE 4403106 19940202; DE
4432262 19940910 (DE 4400736; DE 4403106; DE 4432262)
Publication Language: German
Fulltext Word Count (English): 3651
Fulltext Word Count (German): 3193
Fulltext Word Count (Both)
                           : 6844
Fulltext Availability:
  Description (English machine translation)
  Description (German)
Description (English machine translation)
    present as in the publication "at Uncultured Gastric spiral 45
 Organism Is A Newly Identified Helicobacter in Humans", Jay V.
  Solnick, Jani O'Rourke, Adrian Lee, Bruce J. Paster, Floyd E...
... The journal OF Infections Diseases, 1993, 168,
 page 379 FF.
  The following bacteria are aufgefhrt: Helicobacter
  canis- Helicobacter felis DS3- Helicobacter
                                                  felis
                                                          CS1
  Helicobacter
  pylori Helicobacter acinonyx Helicobacter frame CL03 Helicobacter
  mustelae Helicobacter muridarum Helicobacter cinaedi (Flexispira
  rappini) Wolinella of succinogenes Campylobacter fetus ss fetus
  Campylobacter largi Campylobacter coli Campylobacter...
Description (German)
... derzeit wie in der Publikation "An Uncultured Gastric Spiral 45
 Organism Is a Newly Identified Helicobacter in Humans", Jay V. Solnick,
  Jani O'Rourke, Adrian Lee, Bruce J. Paster, Floyd E...
... The Journal of Infections Diseases, 1993, 168, Seite 379 ff, eingeteilt.
  Folgende Bakterien werden aufgefhrt:
                                        Helicobacter canis- Helicobacter
                                            Helicobacter pylori
    felis DS3- Helicobacter felis CS1
  Helicobacter acinonyx Helicobacter sp. CL03 Helicobacter mustelae
   Helicobacter muridarum Helicobacter cinaedi (Flexispira rappini)
  Wolinella succinogenes Campylobacter fetus ss fetus Campylobacter largi
  Campylobacter coli Campylobacter jejuni...
? logoff hold
       16nov05 14:26:21 User228206 Session D2538.8
            $0.02 0.006 DialUnits File155
               $0.44 2 Type(s) in Format 9
            $0.44 2 Types
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Estimated cost File155

\$0.28 0.048 DialUnits File654 \$0.70 1 Type(s) in Format 3

\$0.46

SEQ 3:- Ra 1-568
8EQ 1: Na 11-2888 ends @
2433 Non Code
Reg



STIC Search Report Biotech-Chem Library

STIC Database Tracking Number: 143154

TO: Ginny Portner

Location: rem/3b02/3c18

Art Unit: 16465

Wednesday, February 16, 2005

Case Serial Number: 09/904994

From: Mary Jane Ruhl

Location: Biotech-Chem Library

Remsen 1-A-62

Phone: 571-272-2524

maryjane.ruhl@uspto.gov

Search-Notes

Examiner Portner,

Here are the results for your recent search request.

Please feel free to contact me if you have any questions about these results.

Thank you for using STIC services. We appreciate the opportunity to serve you.

Sincerely,

Mary Jane Ruhl Technical Information Specialist STIC Remsen 1-A-62 Ext. 22524

